PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

25-Jun-2010

Company: 111310

Room Area ID: Reference #:



 Sales Order #:
 C002697

 CCC Panel #:
 P68001

 Date In:
 03-Jun-2010

 Date Out:
 16-Jun-2010

Days In Service: 13

CCC Panel # P68001

ISA Class G2
Moderate

Copper Corrosion 501 Å/30 Days

Silver Corrosion 247 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68001

The electrolytic reduction analysis on Corrosion Classification Coupon #P68001 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

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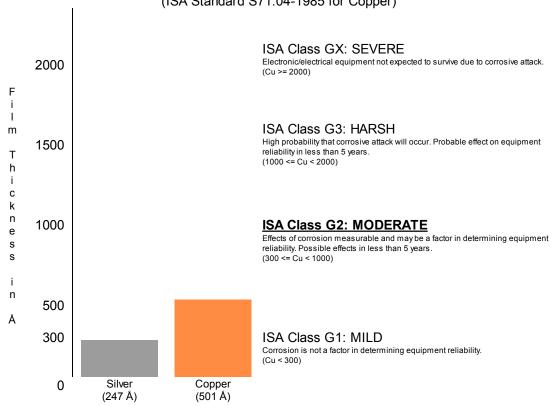
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PURAFIL CCC # P68001 Analysis Results

Corrosion Film Composition				Gold Coupon -
	30 Days	rojections <u>1 Year</u>	<u>5 Year</u>	Magnified 20x
Copper Films Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	213 Å	427 Å	731 Å	
Unknowns	288 Å	577 Å	986 Å	
Totals	501 Å	1004 Å	1717 Å	
Silver Films	9			
AgCI	33 Å	408 Å	2038 Å	
Ag ₂ S	140 Å	1708 Å	8541 Å	
Unknowns	74 Å	905 Å	4524 Å	
Totals	247 Å	3021 Å	15103 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



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